RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/550,505
Source:	IFWP
Date Processed by STIC:	4/12/07

ENTERED



IFWP

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/10/550,505**DATE: 04/12/2007

TIME: 12:59:00

Input Set: A:\2005 1415A Revised Sequence Listing filed 2006-08-23.txt

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3 <110> APPLICANT: NAKAMURA, Toshikazu
        KANEHIRO, Arihiko
         TANIMOTO, Mitsune
 5
         ITO, Wataru
 6
 7
        MATSUMOTO, Kunio
 9 <120> TITLE OF INVENTION: PROPHYLACTIC AND THERAPEUTIC AGENTS FOR ASTHMA
11 <130> FILE REFERENCE: 2005 1415A
13 <140> CURRENT APPLICATION NUMBER: 10/550,505
14 <141> CURRENT FILING DATE: 2005-09-22
16 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/004133
17 <151> PRIOR FILING DATE: 2004-03-24
19 <150> PRIOR APPLICATION NUMBER: 2003-86268
20 <151> PRIOR FILING DATE: 2003-03-26
22 <160> NUMBER OF SEQ ID NOS: 6
24 <170> SOFTWARE: PatentIn version 3.3
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 728
28 <212> TYPE: PRT
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41 Arg Lys Arg Arg Asn Thr Ile His Glu Phe Lys Lys Ser Ala Lys Thr
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45 Thr Leu Ile Lys Ile Asp Pro Ala Leu Lys Ile Lys Thr Lys Lys Val
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49 Asn Thr Ala Asp Gln Cys Ala Asn Arg Cys Thr Arg Asn Lys Gly Leu
53 Pro Phe Thr Cys Lys Ala Phe Val Phe Asp Lys Ala Arg Lys Gln Cys
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57 Leu Trp Phe Pro Phe Asn Ser Met Ser Ser Gly Val Lys Lys Glu Phe
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61 Gly His Glu Phe Asp Leu Tyr Glu Asn Lys Asp Tyr Ile Arg Asn Cys
65 Ile Ile Gly Lys Gly Arg Ser Tyr Lys Gly Thr Val Ser Ile Thr Lys
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69 Ser Gly Ile Lys Cys Gln Pro Trp Ser Ser Met Ile Pro His Glu His
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See	86	82			195		_	_		200	_	_			205	_		
See	86	85	Val	Glu	Cys	Met	Thr	Cys	Asn	Gly	Glu	Ser	Tyr	Arg	Gly	Leu	Met	Asp
90 225	90 225				_			_		_			_		_			_
90 225	90 225	89	His	Thr	Glu	Ser	Gly	Lys	Ile	Cys	Gln	Arq	Trp	Asp	His	Gln	Thr	Pro
94	94						•	_		•				_				
94	94	93	His	Arq	His	Lys	Phe	Leu	Pro	Glu	Arq	Tyr	Pro	Asp	Lys	Gly	Phe	Asp
98	98			_		•					-	-		-	•	-		-
98	98	97.	Asp	Asn	Tyr	Cys	Arq	Asn	Pro	Asp	Gly	Gln	Pro	Arq	Pro	Trp	Cys	Tyr
105	102		-		-	_	_			-	_			-		_	-	
105	102	101	Thr	Let	ı Ası	Pro	His	s Thi	Arg	Tr	o Gli	ı Tyı	r Cys	a Ala	a Ile	e Lys	Thr	Cys
109	106											-	_					_
109	106	105	Ala	Asp	Ası	ı Thi	Met	Asr	ı Ası	Th:	r Ası	o Vai	l Pro	Let	ı Glı	ı Thr	Thr	Glu
110 305 310 320	110 305																	
110 305 310 320	110 305	109	Cys	Il€	Glr	ı Gly	/ Gli	ı Gly	/ Glu	ı Gly	у Туз	r Arc	Gly	/ Ťhi	· Val	l Asr	1 Thr	Ile
114 """ style of the color of	114		_								•	•						
114 """ style of the color of	114	113	Trr	Asr	Gly	/ Ile	e Pro	Cvs	Gli	n Arc	a Tri	o Ası	s Sei	Glr	ı Tyı	r Pro	His	Glu
118	118 340 345 345 355 350 350 360 365 360 380 3				-			_			•	_			-			
118	118 340 345 345 355 350 350 360 365 360 380 3			Ast	Met	Thi	Pro	Gli	ı Ası	n Phe	e Ly:	s Cys	s Lys	a Asr	. Lei	ı Arc	r Glu	Asn
122	122 355 360 360 365 386 386 386 386 388 380 3			-							_	_	•	•		_		
122	122 355 360 360 365 386 386 386 386 388 380 3	121	Tyr	Cys	arc	a Ası	ı Pro	Asr	Gly	/ Se	r Gli	u Sei	r Pro	Tr	Cys	s Phe	Thr	Thr
125 Asp Pro Asn 11e Arg Val Gly Tyr Cys Ser Gln 11e Pro Asn Cys Asp Cys Tyr Arg Gly Asn Gly Lys Asn Tyr Met 129 Met Ser His Gly Gly Asn Gly Lys Asn Tyr Met 130 385 Leu Gly Asn Leu Asp Leu Arg Ser Gly Leu Tyr Cys Asp Leu Asp Asp Leu His Arg His H	125 Asp Pro Asn Ile Arg Val Gly Tyr Cys Ser Gln Ile Pro Asn Cys Inc Arg Gly Arg Inc Arg Inc Inc <td></td> <td>_</td> <td>•</td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td>		_	•	_									_				
126 370	126 370	125	Asr	Pro			e Arc	va]	Gly	/ Ty:	r Cy	s Se	r Gli	ı Ile	Pro	o Asr	Cys	Asp
130 385	130 385 390 395 425 133 Gly Asn Leu Ser Gln Thr Arg Ser Gly Leu Thr Cys Ser Met Trp Has 415 416 415 415 415 415 415 416 415 415 415 416 415 415 416 415 415 415 415 416 415 416 416 430 430 430 430 440 445 445 445 440 445 445 445 440 445 <t< td=""><td></td><td>_</td><td></td><td></td><td></td><td>·</td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td>_</td><td>_</td></t<>		_				·				•						_	_
130 385	130 385 390 395 425 133 Gly Asn Leu Ser Gln Thr Arg Ser Gly Leu Thr Cys Ser Met Trp Has 415 416 415 415 415 415 415 416 415 415 415 416 415 415 416 415 415 415 415 416 415 416 416 430 430 430 430 440 445 445 445 440 445 445 445 440 445 <t< td=""><td>129</td><td>Met</td><td>Ser</td><td>His</td><td>Gly</td><td>/ Gli</td><td>ı Ası</td><td>Cys</td><td>Ty:</td><td>r Arc</td><td>q Gly</td><td>y Ası</td><td>ı Gly</td><td>/ Lys</td><td>s Asr</td><td>ı Tyr</td><td>Met</td></t<>	129	Met	Ser	His	Gly	/ Gli	ı Ası	Cys	Ty:	r Arc	q Gly	y Ası	ı Gly	/ Lys	s Asr	ı Tyr	Met
134	134					-			_	-	Λ		-	_	Ī		_	
137 Lys Asn Met Glu Asp Leu His Arg His 11e Phe Trp Glu Pro Asp Ala 141 Ser Lys Leu Asn Glu Asn Tyr Cys Arg Asn Pro Asp Asp Ala His 142 - 435 - - - 440 - - - 445 - - 430 - <	137 Lys Asn Met Glu Asp Leu His Arg His Ile Phe Trp Glu Pro Asp Thr Arp Asp Asp Asp Thr Arp Asp Asp Asp Asp Asp Asp Asp Asp <td>133</td> <td>Gly</td> <td>Asr</td> <td>ı Leı</td> <td>ı Sei</td> <td>Gli</td> <td>n Thi</td> <td>Arg</td> <td>g Se</td> <td>r Gly</td> <td>y Lei</td> <td>ı Thi</td> <td>Cys</td> <td>s Sei</td> <td>r Met</td> <td>Trp</td> <td>Asp</td>	133	Gly	Asr	ı Leı	ı Sei	Gli	n Thi	Arg	g Se	r Gly	y Lei	ı Thi	Cys	s Sei	r Met	Trp	Asp
138	138 420 425 430 430 431 431 431 431 431 431 431 432 432 432 433 433 440 431 445 446 446 446 446 446 446 446 446 446 446 446 446 447 447 447 447 447 447 447 447 449 449 449 449 449 449 449 449 449 449 449 449 449 449 4	134					405	5				410)				415	
141 Ser Lys Leu Asn Glu Asn Tyr Cys Arg Asn Pro Asp Asp Ala His 142	141 Ser Lys Leu Asn Glu Asn Tyr Cys Arg Asn Pro Asp Asp Ala Fro 145 Asp Asp Asp Ala Fro Leu Ile Pro Trp Asp Tyr Cyr Tyr Asp Fro Leu Ile Pro Trp Asp Tyr Cyr Tyr Asp Fro Leu Ile Pro Trp Asp Tyr Cyr Ile Asp Pro Ile Pro Tyr Asp T	137	Lys	Asr	Met	: Glu	ı Ası	Lei	ı His	s Arg	g Hi	s Ile	e Phe	Tr	Gli	ı Pro	Asp	Ala
142 435 440 450 770 7	142 435 440 445 445 450 177 Thr Gly Asn Pro Leu Ile Pro Trp Asp Tyr Gly Asn Pro Leu Ile Pro Trp Asp Tyr Gly Asp Pro Ile Ser Arg Cys Glu Gly Asp Thr Thr Pro Thr Ile Val Asn Ile Soc Afo 460 149 Pro Ile Ser Arg Cys Glu Gly Asp Thr Thr Pro Thr Ile Val Asn Ile Soc Afo 470 475 475 475 470 475 475 470 475 475 477 470 475 475 477 477 475 475 477 477 477 475 477	138				420)				42	5 .				430)	
145 Gly Pro Trp Cys Tyr Thr Gly Asn Pro Leu Ile Pro Trp Asp Tyr Cys Glu Gly Asp Thr Pro Thr Ile Val Asn Leu 150 465	145 Gly Pro Trp Cys Tyr Thr Gly Asn Pro Leu Ile Pro Trp Asp Tyr T	141	Ser	Lys	Let	ı Ası	ı Glı	ı Ası	туз	c Cys	s Arg	g Ası	n Pro	Ası	As _I	Asp	Ala	His
146 450 450 455 460 460 480 4	146 450 455 460 149 Pro Ile Ser Arg Cys Glu Gly Asp Thr Thr Pro Thr Ile Val Asn I 150 465 465 470 470 470 475 475 475 485 470 470 475	142			435	5				44	0				449	5		
149 Pro Ile Ser Arg Cys Glu Gly Asp Thr Pro Thr Ile Val Asp Leu 150 465	149 Pro Ile Ser Arg Cys Glu Gly Asp Thr Thr Pro Thr Ile Val Asp Ile Arg Yal Y	145	Gly	Pro	Tr	Суя	з Туз	r Thi	Gly	/ Ası	n Pro	o Lev	ı Ile	Pro	Tr	Asp	Tyr	Cys
150 465	150 465	146		450)				455	5				460)			
153 Asp His Pro Val Ile Ser Cys Ala Lys Thr Lys Gln Leu Arg Val Val 154	153 Asp His Pro Val Ile Ser Cys Ala Lys Thr Lys Gln Leu Arg Val Val 154	149	Pro	$\mathbf{Il}\epsilon$	Sez	: Arg	g Cys	s Gli	ıGly	/ As	o Thi	r Th	r Pro	Thi	: Ile	e Val	Asn	Leu
154	154	150	465	;				470)				475	5				480
157 Asn Gly Ile Pro Thr Arg Thr Arg Thr Asn Ile Gly Trp Met Val Ser Leu Arg Arg 158	157 Asn Gly Ile Pro Thr Arg Thr Asn Ile Gly Trp Met Val Ser Leu A 5158	153	Asp	His	Pro	Va]	l Ile	e Sei	Cys	s Ala	a Ly	s Thi	r Lys	Glr	ı Leı	ı Arç	y Val	Val
158 508 505 516 510 520 510 520 5	158																	
161 Tyr Arg Asn Lys His Ile Cys Gly Gly Ser Leu Ile Lys Glu Ser Trp 162 515 520 525 165 Val Leu Thr Ala Arg Gln Cys Phe Pro Ser Arg Asp Leu Lys Asp Tyr 166 530 535 540	161 Tyr Arg Asn Lys His Ile Cys Gly Gly Ser Leu Ile Lys Glu Ser T 162 515 520 525 165 Val Leu Thr Ala Arg Gln Cys Phe Pro Ser Arg Asp Leu Lys Asp T 166 530 535 540 169 Glu Ala Trp Leu Gly Ile His Asp Val His Gly Arg Gly Asp Glu I 170 545 550 555	157	Asr	ı Gly	/ Ile	Pro	Thi	r Arg	Th:	r Ası	n Ile	e Gly	y Tr	Met	: Va	l Ser	Leu	Arg
162 515 520 525 165 Val Leu Thr Ala Arg Gln Cys Phe Pro Ser Arg Asp Leu Lys Asp Tyr 166 530 535 540	162 515 520 525 165 Val Leu Thr Ala Arg Gln Cys Phe Pro Ser Arg Asp Leu Lys Asp Ten Ser Arg Asp Leu Lys Asp Ten Ser Ser Arg Asp Leu Lys Asp Ten Ser	158				500)				50!	5				510)	
165 Val Leu Thr Ala Arg Gln Cys Phe Pro Ser Arg Asp Leu Lys Asp Tyr 166 530 535 540	165 Val Leu Thr Ala Arg Gln Cys Phe Pro Ser Arg Asp Leu Lys Asp 7 166 530 535 540 169 Glu Ala Trp Leu Gly Ile His Asp Val His Gly Arg Gly Asp Glu I 170 545 550 550 555	161	Tyr	Arc	J Ası	ı Lys	s His	s Ile	e Cys	s Gly	y Gly	y Se	r Lei	ı Il ϵ	Lys	s Gli	ı Ser	Trp
166 530 535 540	166 530 535 540 169 Glu Ala Trp Leu Gly Ile His Asp Val His Gly Arg Gly Asp Glu I 170 545 550 555	162			515	5				520	0				529	5		
	169 Glu Ala Trp Leu Gly Ile His Asp Val His Gly Arg Gly Asp Glu I 170 545 550 555	165	Val	. Leı	ı Thi	: Ala	a Arg	g Glr	ı Cys	s Phe	e Pro	o Sei	r Arg	j Asp	Let	ı Lys	s Asp	Tyr
100 Clu Nia Emp Lou Clu Tia His New Yol His Clu New Clu New Clu Luc	170 545 550 555 5	166		530)				535	5				540)			
		169	Glu	ı Ala	Tr	Let	ı Gly			s Ası	o Va	l His	s Gly	/ Arc	Gly	y Asp	Glu	Lys
	173 Cvs Lvs Gln Val Leu Asn Val Ser Gln Leu Val Tvr Glv Pro Glu G																	
173 Cys Lys Gln Val Leu Asn Val Ser Gln Leu Val Tyr Gly Pro Glu Gly			_	Lys	Gli	ı Val			ı Val	l Se	r Gli			Туз	Gly	y Pro		-
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Input Set : A:\2005_1415A Revised Sequence Listing filed 2006-08-23.txt

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189 Tyr Asp Gly Leu Leu Arg Val Ala His Leu Tyr Ile Met Gly Asn Glu
                        630
193 Lys Cys Ser Gln His His Arg Gly Lys Val Thr Leu Asn Glu Ser Glu
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197 Ile Cys Ala Gly Ala Glu Lys Ile Gly Ser Gly Pro Cys Glu Gly Asp
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201 Tyr Gly Gly Pro Leu Val Cys Glu Gln His Lys Met Arg Met Val Leu
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205 Gly Val Ile Val Pro Gly Arg Gly Cys Ala Ile Pro Asn Arg Pro Gly
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218 <211> LENGTH: 723
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220 <213> ORGANISM: Homo sapiens
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236 Thr Leu Ile Lys Ile Asp Pro Ala Leu Lys Ile Lys Thr Lys Lys Val
240 Asn Thr Ala Asp Gln Cys Ala Asn Arg Cys Thr Arg Asn Lys Gly Leu
244 Pro Phe Thr Cys Lys Ala Phe Val Phe Asp Lys Ala Arg Lys Gln Cys
248 Leu Trp Phe Pro Phe Asn Ser Met Ser Ser Gly Val Lys Lys Glu Phe
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252 Gly His Glu Phe Asp Leu Tyr Glu Asn Lys Asp Tyr Ile Arg Asn Cys
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256 Ile Ile Gly Lys Gly Arg Ser Tyr Lys Gly Thr Val Ser Ile Thr Lys
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260 Ser Gly Ile Lys Cys Gln Pro Trp Ser Ser Met Ile Pro His Glu His
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264 Ser Tyr Arg Gly Lys Asp Leu Gln Glu Asn Tyr Cys Arg Asn Pro Arg
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Input Set : A:\2005 1415A Revised Sequence Listing filed 2006-08-23.txt

Output Set: N:\CRF4\04122007\J550505.raw

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Input Set: A:\2005 1415A Revised Sequence Listing filed 2006-08-23.txt

Output Set: N:\CRF4\04122007\J550505.raw

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376 Val Tyr Gly Trp Gly Tyr Thr Gly Leu Ile Asn Tyr Asp Gly Leu Leu
                            615
380 Arg Val Ala His Leu Tyr Ile Met Gly Asn Glu Lys Cys Ser Gln His
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                                             635
381 625
384 His Arg Gly Lys Val Thr Leu Asn Glu Ser Glu Ile Cys Ala Gly Ala
385
                    645
                                         650
388 Glu Lys Ile Gly Ser Gly Pro Cys Glu Gly Asp Tyr Gly Gly Pro Leu
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392 Val Cys Glu Gln His Lys Met Arg Met Val Leu Gly Val Ile Val Pro
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396 Gly Arg Gly Cys Ala Ile Pro Asn Arg Pro Gly Ile Phe Val Arg Val
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409 <211> LENGTH: 2187
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411 <213> ORGANISM: Homo sapiens
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418 gaattcaaaa aatcagcaaa gactacccta atcaaaatag atccagcact gaagataaaa
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420 accaaaaaag tgaatactgc agaccaatgt gctaatagat gtactaggaa taaaggactt
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422 ccattcactt gcaaggcttt tgtttttgat aaagcaagaa aacaatgcct ctggttcccc
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424 ttcaatagca tgtcaagtgg agtgaaaaaa gaatttggcc atgaatttga cctctatgaa
                                                                          360
426 aacaaagact acattagaaa ctgcatcatt ggtaaaggac gcagctacaa gggaacagta
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428 totatoacta agagtggcat caaatgtoag cootggagtt coatgataco acacgaacac
                                                                          480
430 agetttttgc cttcgageta tcggggtaaa gacctacagg aaaactactg tcgaaatcct
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432 cgaggggaag aagggggacc ctggtgtttc acaagcaatc cagaggtacg ctacgaagtc
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434 tgtgacattc ctcagtgttc agaagttgaa tgcatgacct gcaatgggga gagttatcga
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436 ggtctcatgg atcatacaga atcaggcaag atttgtcagc gctgggatca tcagacacca
                                                                          720
438 caccggcaca aattettgcc tgaaagatat cccgacaagg gctttgatga taattattgc
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440 cgcaatcccg atggccagcc gaggccatgg tgctatactc ttgaccctca cacccgctgg
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444 gaaacaactg aatgcatcca aggtcaagga gaaggctaca ggggcactgt caataccatt
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446 tggaatggaa ttccatgtca gcgttgggat tctcagtatc ctcacgagca tgacatgact
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                                                                         1080
448 cctgaaaatt tcaagtgcaa ggacctacga gaaaattact gccgaaatcc agatgggtct
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450 gaatcaccct ggtgttttac cactgatcca aacatccgag ttggctactg ctcccaaatt
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452 ccaaactgtg atatgtcaca tggacaagat tgttatcgtg ggaatggcaa aaattatatg
454 ggcaacttat cccaaacaag atctggacta acatgttcaa tgtgggacaa gaacatggaa
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456 gacttacatc gtcatatctt ctgggaacca gatgcaagta agctgaatga gaattactgc
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460 tgggattatt gccctatttc tcgttgtgaa ggtgatacca cacctacaat agtcaattta
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462 gaccatcccg taatatcttg tgccaaaacg aaacaattgc gagttgtaaa tgggattcca
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464 acacgaacaa acataggatg gatggttagt ttgagataca gaaataaaca tatctgcgga
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Input Set : A:\2005_1415A Revised Sequence Listing filed 2006-08-23.txt

Output Set: N:\CRF4\04122007\J550505.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:5,6

VERIFICATION SUMMARY

DATE: 04/12/2007

PATENT APPLICATION: US/10/550,505

TIME: 12:59:01

Input Set : A:\2005_1415A Revised Sequence Listing filed 2006-08-23.txt